



3672  
PATENT  
TH1950

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 09/841,299

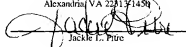
Confirmation No.: 3896

Filing Date: April 24, 2001

Inventors: de Rouffignac et al.

Title: IN SITU THERMAL  
PROCESSING OF A  
HYDROCARBON  
CONTAINING FORMATION  
TO INCREASE A POROSITY  
OF THE FORMATION

Examiner: G. A. Suchfield  
Art Unit: 3672  
Atty. Dkt. No.: 5659-02500/EBM

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8
DATE OF DEPOSIT: 11-25-03
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail on the date indicated above and is addressed to:
Commissioner for Patents Alexandria, VA 22313-1450  Jackie L. Price

**REQUEST FOR SIGNED FORM PTO 1449 AND ELECTRONIC INFORMATION  
DISCLOSURE STATEMENTS**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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Sir:

Applicant notes that the Examiner has not acknowledged receipt of all of the Information Disclosure Statements filed for the above-captioned application. Applicant has attached the unacknowledged Form PTO-1449. The form list references S05 and T01-T54 (sent on July 29, 2003; received by the PTO on July 31, 2003 as indicated on the enclosed copy of the return postcard).

Applicant has attached the unacknowledged electronic Information Disclosure Statements. The statements include U.S. Patent Documents reference numbers 1-4 (sent to and received by the PTO on June 23, 2003, as indicated on the enclosed acknowledgement receipt EFS ID 42304); and U.S. Patent Documents reference numbers 1-10 (sent to and received by the

PTO on September 5, 2003, as indicated on the enclosed acknowledgement receipt EFS ID 47177).

Applicant respectfully requests signed, initialed copies of Form PTO-1449 and the electronic Information Disclosure Statements, previously submitted for the above-captioned application.

Respectfully submitted,



David W. Quimby  
Reg. No. 39,338

Attorney for Applicant

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Date: November 25, 2003

Form PTO-1449 (modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement  
(Use several sheets if necessary)



ATTY. DKT. NO. 5659-02500

SERIAL NO. 09/841,299

APPLICANT: de Rouffignac et al.

GROUP: 3672

FILING DATE: April 24, 2001

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# U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	S5	2,857,002	10/21/1958	Pevere et al.			

## FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
	T01	1836876	12/30/1994	SU			Y

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	T02	Burnham, Alan, K. "Oil Shale Retorting Dependence of timing and composition on temperature and heating rate", January 27, 1995, (23 pages).
	T03	Burnham et al. "A Possible Mechanism of Alkene/Alkane Production in Oil Shale Retorting, (7 pages).
	T04	Campbell, et al., "Kinetics of oil generation from Colorado Oil Shale" IPC Business Press, Fuel, 1978, (3 pages).
	T05	Cummins et al. "Thermal Degradation of Green River Kerogen at 150° to 350 °C", Report of Investigations 7620, U.S. Government Printing Office, 1972, (pages 1-15).
	T06	Cook, et al. "The Composition of Green River Shale Oils", United Nations Symposium on the Development and Utilization of Oil Shale Resources, Tallinn, 1968, (pages 1-23).
	T07	Hill et al., "The Characteristics of a Low Temperature in situ Shale Oil" American Institute of Mining, Metallurgical & Petroleum Engineers, 1967 (pages 75-90).
	T08	Dinnen, et al. "Developments in Technology for Green River Oil Shale" United Nations Symposium on the Development and Utilization of Oil Shale Resources, Tallinn, 1968, (pages 1-20).
	T09	De Rouffignac, E. "In Situ Resistive Heating of Oil Shale for Oil Production-A Summary of the Swedish Data, (4 pages).
	T10	Dougan, et al. "The Potential for in situ Retorting of Oil Shale in the Piceance Creek Basin of Northwestern Colorado", Quarterly of the Colorado School of Mines (pages 57-72).
	T11	Hill et al. "Direct Production of Low Pour Point High Gravity Shale Oil" I&EC Product Research and Development, 1967, Volume 6, (pages 52-59).
	T12	Yen et al., "Oil Shale" Developments in Petroleum Science, 5, Elsevier Scientific Publishing Co., 1976 (pages 187-198).
	T14	SSAB report, "A Brief Description of the Ljungstrom Method for Shale Oil Production," 1950, (12 pages).
	T14	Salomonsson G., SSAB report, "The Lungstrom In Situ-Method for Shale Oil Recovery, 1950 (28 pages)
	T15	"Swedish shale oil-Production method in Sweden," Organisation for European Economic Co-operation, 1952, (70 pages).
	T16	SSAB report, "Kvarn Torp" 1958, (36 pages).
	T17	SSAB report, "Kvarn Torp" 1951 (35 pages).
	T18	SSAB report, "Summary study of the shale oil works at Narkes Kvarntorp" (15 pages).
	T19	Vogel et al. "An Analog Computer for Studying Heat Transfer during a Thermal Recovery Process," AIME Petroleum Transactions, 1955 (pages 205-212).
	T20	"SKIFEROLJA GENOM UPPVARMNING AV SKIFERBERGET," Faxin Department och Namder, 1941, (3 pages)

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Form PTO-1449 (modified)  
List of Patents and Publications  
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Disclosure Statement  
(Use several sheets if necessary)



ATTY. DKT. NO. 5659-02500

SERIAL NO. 09/841,299

APPLICANT: de Rouffignac et al.

GROUP: 3672

FILING DATE: April 24, 2001

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T21	"Aggregeringen av olja och ransoneringen grunder", Av director E.F.Cederlund I Statens livmedelskommision (1page).
T22	Ronby, E. "KVARNTORP-Sveriges Storst skifferoljeindustri," 1943, (9 pages)
T23	SAAB report, "The Swedish Shale Oil Industry," 1948 (8 pages).
T24	Gejrot et al., "The Shale Oil Industry in Sweden," Carlo Colombo Publishers-Rome, Proceedings of the Fourth World Petroleum Congress, 1955 (8 pages)
T25	Hedback, T. J., "The Swedish Shale as Raw Material for Production of Power, Oil and Gas," Xlth Sectional Meeting World Power Conference, 1957 (9 pages)
T26	SAAB, "Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand", 1955 Vol. 1, (141 pages) English
T27	SAAB, "Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand-Figures", 1955 Vol. 2, (146 pages) English.
T28	"Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand-Memorandum re: tests", 1955 Vol. 3, (256 pages) English.
T29	Helander, R.E., "Santa Cruz, California, Field Test of Carbon Steel Burner Casings for the Lins Method of Oil Recovery", 1959 (38 pages) English.
T30	Helander et al., Santa Cruz, California, Field Test of Fluidized Bed Burners for the Lins Method of Oil Recovery" 1959, (86 pages) English.
T31	SAAB report, "Bradford Residual Oil, Athabasa Ft. McMurray" 1951, (207 pages), partial translation.
T32	"Lins Burner Test Results-English" 1959-1960
T33	SSAB "Annual Reports, SSAB Laboratory, Address Annually Issues-Shale and Ash, Oil, Gas, Waste Water, Analytical", 1953-1954, (166 pages). Swedish
T34	SSAB report, "Financial Matter, Swedish taxes, etc.," 1960-1961 (37 pages). Swedish
T35	SSAB report, "Cost For Mining," 1959-1979 (13 pages). Swedish
T36	SSAB report, "Cost Comparison of Mining and Processing of Shale and Dolomite Using Various Production Alternatives", 1960, (64 pages). Swedish
T37	SSAB report, "Assessment of Future Mining Alternatives of Shale and Dolomite," 1962, (59 pages) Swedish.
T38	SSAB report. "Kartong 2 Shale: Ljungstromsanlaggnngen" (104 pages) Swedish.
T39	SAAB, "Photos", (18 pages).
T40	SAAB report, "Swedish Geological Survey Report, Plan to Delineate Oil shale Resource in Narkes Area (near Kvarntorp)," 1941 (13 pages). Swedish.
T41	SAAB report, "Recovery Efficiency," 1941, (61 pages). Swedish.
T42	SAAB report, "Geologic Work Conducted to Assess Possibility of Expanding Shale Mining Area in Kvarntorp; Drilling Results, Seismic Results," 1942 (79 pages). Swedish.
T43	SSAB report, "Ojematnigar vid Norrtorp," 1945 (141 pages).
T44	SSAB report, "Inhopplingschema, Norrtorp II 20/3-17/8", 1945 (50 pages). Swedish.
T45	SSAB report, "Secondary Recovery after LINS," 1945 (78 pages)
T46	SSAB report, "Maps and Diagrams, Geology," 1947 (137 pages). Swedish.
T47	SSAB report, "Styrehseprotoholl," 1943 (10 pages). Swedish.
T48	SSAB report, "Early Shale Retorting Trials" 1951-1952, (134 pages). Swedish.

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DATE CONSIDERED:

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Disclosure Statement

(Use several sheets if necessary)



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APPLICANT: de Rouffignac et al.

GROUP: 3672

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	T49	SSAB report, "Environmental Sulphur and Effect on Vegetation," 1951 (50 pages). Swedish.
	T50	SSAB report, "Environmental Sulphur and Effect on Vegetation," 1951 (50 pages). Swedish.
	T51	SSAB report, "Tar Sands", Vol.135 1953 (20 pages, pages 12-15 translated). Swedish.
	T52	SSAB report, "Assessment of Skanes Area (Southern Sweden) Shales as Fuel Source," 1954 (54 pages). Swedish.
	T53	SSAB report, "From as Ulre Dn Text Geology Reserves," 1960 (93 pages). Swedish.
	T54	SSAB report, "Kvarntorps-Environmental Area Assessment," 1981 (50 pages). Swedish.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTORS:

de Rouffignac et al.

ASSIGNEE:

Shell Oil Company

SERIAL NO.:

09/841,299

FILING DATE:

April 24, 2001

TITLE:

IN SITU THERMAL PROCESSING OF A HYDROCARBON  
CONTAINING FORMATION TO INCREASE A POROSITY OF  
THE FORMATION

ATTORNEY DOCKET: 5659-02500

The date stamp of the mail room of the U.S. Patent and Trademark Office hereon will  
acknowledge receipt of the following: 1) Information Disclosure Statement (1 page); 2) Form  
PTO 1449 listing references S5 and T1-T54 (3 pages) with accompanying references; 3) A Return  
Postcard.

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Via First Class Mail

Date:

1999



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# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of  
Invention

IN SITU THERMAL PROCESSING OF A HYDROCARBON  
CONTAINING FORMATION TO INCREASE A POROSITY OF  
THE FORMATION

Application Number: 09/841299

\*09/841299\*

Confirmation Number: 3896

First Named Applicant: Eric de Rouffignac

Attorney Docket Number: 5659-02500

Art Unit: 3672

Examiner: George A Suchfield

Search string: ( 4931171 or 4737267 or 4384948 or 3593790 or 3497000 or  
3244231 or 3223166 or 3947656 or 3165154 or 4458757 ).pr

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## US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	4931171	1990-06-05	Piotter			
	2	4737267	1988-04-12	Pao et al.			
	3	4384948	1983-05-24	Barger			
	4	3593790	1971-07-20	Herce			
	5	3497000	1970-02-24	Hujak et al.			
	6	3244231	1966-04-05	Grekel et al.			
	7	3223166	1965-12-14	Hunt et al.			
	8	3947656	1976-03-30	Lodi			
	9	3165154	1965-01-12	Santourian			
	10	4458757	1984-07-10	Bock et al.			

Signature

Examiner Name	Date

**UNITED STATES PATENT AND TRADEMARK OFFICE  
ACKNOWLEDGEMENT RECEIPT**

Electronic Version 1.1  
Stylesheet Version v1.1.1

<b>Title of Invention</b>	<b>IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO INCREASE A POROSITY OF THE FORMATION</b>
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Submission Type: Information Disclosure Statement

Application Number: 09/841299 \*09/841299\*

EFS ID: 47177

Server Response:

Confirmation Code	Message
ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application
ICON1	3896
ISYS5	Filename= N/A BusinessRule= Validation System/Function Call Information. #Supporting Msg:Server unable to validate the Confirmaton/Application numbers at this time. They will be checked by PTO personnel later.

First Named Applicant: Eric de Rouffignac

Attorney Docket Number: 5659-02500

Timestamp: 2003-09-05 16:36:07 EDT

From: us

File Listing:

Doc. Name	File Name	Size (Bytes)
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us-ids	us-ids.dtd	7763
us-ids	us-ids.xml	12026
package-data	el575-581-pkda.xml	2049
package-data	package-data.dtd	27025
package-data	us-package-data.xml	19263
Total files size		70909

Message Digest: c2e0fc2c879e5548ab9e937ed5f3e3fd94622dec

Digital Certificate Holder Name: cn=Eric B. Meyertons,ou=Registered Attorneys,ou=Patent and Trademark

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# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of  
Invention

IN SITU THERMAL PROCESSING OF A HYDROCARBON  
CONTAINING FORMATION TO INCREASE A POROSITY OF  
THE FORMATION

Application Number: 09/841299

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Confirmation Number: 3896

First Named Applicant: Eric de Rouffignac

Attorney Docket Number: 5659-02500

Art Unit: 3672

Examiner: George A Suchfield

Search string: ( 3026940 or 3947683 or 3285335 or 3456721 ).pn.

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## US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	3026940	1962-03-27	Spitz			
	2	3947683	1976-03-30	Schultz et al.			
	3	3285335	1966-11-15	Reistle			
	4	3456721	1969-07-22	Smith			

Signature

Examiner Name	Date

**UNITED STATES PATENT AND TRADEMARK OFFICE  
ACKNOWLEDGEMENT RECEIPT**

Electronic Version 1.1

Stylesheet Version v1.1.1

**Title of  
Invention**

IN SITU THERMAL PROCESSING OF A HYDROCARBON  
CONTAINING FORMATION TO INCREASE A POROSITY OF THE  
FORMATION

Submission Type: Information Disclosure Statement

Application Number: 09/841299

\*09/841299\*

EFS ID: 42304

Server Response:

Confirmation Code	Message
ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application
ICON1	3896
ISYS5	Filename= N/A BusinessRule= Validation System/Function Call Information. #Supporting Msg:Server unable to validate the Confirmaton/Application numbers at this time. They will be checked by PTO personnel later.

First Named Applicant: Eric de Rouffignac

Attorney Docket Number: 5659-02500

Timestamp: 2003-06-23 18:24:20 EDT

From: us

File Listing:

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package-data	us-package-data.xml	19263
Total files size		69530

Message Digest: 1369918938c0777f5948e3f060ed6ba77e64f16b

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Name:

cn=Eric B. Meyertons,ou=Registered  
Attorneys,ou=Patent and Trademark